

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name:MOL Favorit 2 lithium complex lubricating greaseVersion: 6Latest revision: 01. 06. 2016Date of issue: 20. 06. 2007Page: 1/(13)

1. Section Identification of the mixture/substance and of the company/undertaking Product identifier: 1.1 MOL Favorit 2 lithium complex lubricating grease Relevant identified uses of the mixture or substance and uses advised against 1.2 Relevant identified uses: lithium complex lubricating grease Uses advised against: no data 1.3 Details of the supplier of the safety data sheet: MOL-LUB Lubricant Production Trade and Service Limited Liability Company H-2931 Almásfüzitő, Fő út 21., Hungary Phone / Fax: +36 34 526 330 / +36 34 526 391 E-mail: kenoanyag@mol.hu **Request SDS of:** MOL-LUB Lubricant Production Trade and Service Limited Liability Company **Customer Service Center** H-2931 Almásfüzitő, Fő út 21., Hungary Phone / Fax: +36 80 201 296 / +36 34 348 010 **Responsible for SDS:** MOL-LUB Ltd. Csaba Horváth, head of SD, HSE & Business Support Phone: +36 34 526 343; Mobile: +36 20 474 2644 e-mail: csahorvath@mol.hu 1.4 Emergency telephone number Emergency telephone (on workdays: 07-15²⁰ h (CET)): +36 34 526 210 Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.) Tel.: 36 80 201 199 (0-24 h, free number). National Health Toxicological Information Service:

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2. Se	ection Hazards ident	ification
2.1	Classification of the <u>m</u> Hazard Class and Cate Eye Irrit 2	
2.2	Label elements	
	Product identification: Trade name:	MOL Favorit 2 lithium complex lubricating grease
	Hazardous components	s: -
	Pictogram:	
	Signal word:	Warning
	Hazard statement: H319	Causes serious eye irritation.
	Supplemental hazard in	nformation: -
	Precautionary statemer	nts – General: -
	Precautionary statemer	tts – Prevention:
	P280	Wear eye protection.
	P273	Avoid release to the environment.
	Precautionary statemer P305 + P351 + P338	nts – Response: IF IN EYES: Rinse cautiously with water for several minutes.
	P337 + P313	Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Precautionary statemer	nts – Storage: -



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Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling: Tactile warning of danger: Not required. Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

3. Section Composition/information on ingredients

3.2 Mixtures

Chemical description:

Mineral oil and synthetic oil based consistent lubricant containing complex lithium soap and additives.

Component / Hazardous component(s):

Name	EU	CAS	Hazard classes and	Hazard	Conc.
Ivaille	number	number	cat.	statements	%(m/m)
Lubricating oils	309-877-7	101316-72-7	Asp.Tox.1	H304	max. 20
(petroleum), C24-			(Note L)		
C50*					
Registration Nr.:					
01-2119489969-06					
Lubricating oils	309-874-0	101316-69-2	-	-	max. 70
(petroleum), C>25*			(Note L)		
Registration Nr.:					
01-2119486948-13					
Polyisobutenyl succinic		67762-77-0	Eye Irrit. 2	H319	max. 4.5
acid anhydride			STOT SE 3	H335	
Sulfurized vegetable oil	304-821-2	94279-762	Skin Irrit. 2	H315	max. 1.5
C			Eye Irrit. 2	H319	
Zinc alkyl dithiophosphate	272-028-3	68649-42-3	Skin Irrit. 2	H315	max. 1.5
			Eye Dam. 1	H318	
			Aquatic Chronic 2	H411	
			1		

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N	EU	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Lithium hydroxide	215-183-4	1310-66-3	Skin Corr. 1B	H314	max. 0.1
monohydrate			Acute Tox. 4	H302	
-					

*: with exposure limit

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

4. Section First aid measures

4.1 Description of first aid measures

- General information: Never give anything by mouth to an unconscious person, or never induce vomiting.
 - Inhalation: Remove the affected person to fresh air. Seek medical attention.
 - Skin Remove contaminated clothing. Wash with plenty amount of water, using soap. In case of persistent irritation, get medical advice. contact:
 - Eye contact: Flush eyes with large amounts of water for at least 15 minutes. Get medical attention.
 - Ingestion: If swallowed, give drink salted lukewarm water. Induce vomiting. Get medical attention.

Protection of first-aid person: No individual specifications.

- Most important symptoms and effects, both acute and delayed 4.2 Not available.
- 4.3 Indication of any immediate medical attention and special treatment need Not required.

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5. Section **Fire-fighting measures** Fire hazards: Combustible. 5.1 Extinguishing media Suitable extinguishing media: Sand, carbon dioxide, dry chemical powder. Unsuitable extinguishing media: Water jet. 5.2 Special hazards arising from the mixture or substance Hazardous combustion products: On burning, carbon monoxide, carbon dioxide, sulphur oxides, phosphor oxides, various hydrocarbons and soot can be formed. 5.3 Advice for fire-fighters Special protective equipment: According to the existing fire-fighting regulations. Further information: 6. Section Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions: see Section 8. Danger of slipping on leaked out/spilled product. 6.2 Environmental precautions: Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority. 6.3 Methods and material for containment and cleaning up Take up spilled product with shovel or scoop. Residuals should be cleaned On soil: up with cloths and/or sawdust. Dispose of the collected material as hazardous waste, according to local regulations. On water: Confine the spillage. Remove from surface by skimming. Notify local authorities according to regulations.

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6.4	Reference to other sections	
	Personal precautions: see	e section 8.
	Waste treatment method	s: see section 13.
7. Se	ection Handling and st	orage
7.1	Avoid splashing the prod Avoid contact with skin Ensure washing facilities Take off contaminated of soap.	ndling lubricant greases should be observed. duct. and eyes. s after working hours and before breaks. or oil-soaked clothing immediately, wash with warm water and may be slippery, use care to avoid falling, contain spills hrink or smoke.
7.2	Store in dry, well ventila	including any incompatibilities ted place in original, tightly closed containers. eat, ignition sources and strong oxidizing agents. emperature: max. 45°C
7.3	Specific end use(s) Lithium complex lubrica	ting grease.
8. Se	ection Exposure contro	ols / personal protection
	Engineering control measur Not required.	res:
8.1	Control parameters: -	
8.2	Exposure controls Personal protection: Respiratory protection: Hand protection:	Breathing apparatus not required. Oil resistant gloves (EN 374, Breakthrough time 480 min) (e.g. nitrile rubber – minimal thickness 0.33 mm). Note: Manufacturer's directions for use and the conditions of application should be observed.
	Eye protection: Skin protection: Other special:	Protective goggles if splashes may occur. Protective clothing (oil resistant). no data



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	Environmental exposure c Do not discharge into d		/groundwater.
9. Se	ection Physical and ch	emical properties	
9.1	Information on basic physi Appearance:	cal and chemical pr	operties
	Physical state:		consistent
Colour:			yellow, homogenous
	Odour:		characteristic
	Change in physical state:		characteristic
	Dropping point (ISO 2	2176).	typ. 270°C
	Pour point:	.170).	not available
	Others:		not available
	Flash point (COC) (El	N ISO 2592).	> 200°C (base oil)
	Ignition point (EN ISC		not available
	Autoignition temperat		not available
	Explosive properties:	urc.	not explosive
	Oxidizing properties:		not oxidize
Vapour pressure at 20°C: Density at 20°C:		$^{\circ}\mathrm{C}^{\cdot}$	negligible
		0.	not available
	Solubility in water:		practically insoluble in water
	n-Octanol/water partit	ion coefficient:	not available
	Penetration after work		typ. 280
	(0,1 mm) (ISO 2137):		·)p: _00
	pH:		not applicable
0.0	I I		not approache
9.2	Other information		
	no data available		
10. S	Section Stability and I	reactivity	
10.1	Reactivity:	Dangerous reactiv	ity not known.
	Chemical stability:	U	if stored and handled properly.
	Possibility of hazardous	ĩ	
	reactions:	Not known	
10.4	Conditions to avoid:		tion sources, open flames.
	Incompatible materials:	Strong oxidizing a	
	Hazardous decomposition products:	No dangerous deco	omposition products are formed under normal lous combustion products: See Section 5.

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	Section	Toxicological in	formation			
11.1		n toxicological et	ffects			
	Acute toxicity					
	Oral:		D_{50} (rat)	> 2000	mg/kg	(based on components)
	Dermal:	LI	O ₅₀ (rabbit)	> 2000	mg/kg	(based on components)
	Acute toxicity	: irritation				
	Skin: Note:	-	l/or repeated		y cause in	ritation on skin depending
		on individual	sensitivity.			
	Eye:	irritant (based	on componen	nts)		
	Respiratory or	skin sensitisatio	n: not ser	sitising (bas	sed on con	nponents)
	The prod	ntion, specific eff uct does not con arium compound	tain PCBs, P	CTs, and o	ther chlori	ne compounds, and heavy
	because i			-		ccording to 1272/2008/EC, an 3 % DMSO extract as
	Germ cel	l mutagenicity:	not kn	own racn n	ot mutage	n (based on components)
	Carcinog			tnown, res	-	carcinogen (based on
	Reproduc	ctive toxicity:	-		no repro	oduction-damaging effect
	reproduc	dive contency.		on compone	-	
	STOT-sir	ngle exposure:	not cla	-		
			not cla			
	STOT-rei	neated exposure.		builde		
	STOT-rej Aspiratio	peated exposure: n hazard:	not cla	ssified		
<u>, , , , , , , , , , , , , , , , , , , </u>	Aspiratio	n hazard:		ssified		
	Aspiratio		on			
	Aspiratio Section Ecolo Toxicity	n hazard:	on	ssified a available.		
	Aspiratio Section Ecolo Toxicity Aquatic o	n hazard: ogical information organisms:	on			
2.1	Aspiratio Section Ecolo Toxicity	n hazard: ogical information organisms:	on			



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12.2	Persistence and degradability	
	Biodegradability:	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility	
	Mobility in soil:	Soil is not mobile.
	Mobility in water:	Floats on water. Does not form continuous layer.
12.5	Results of PBT and vPvB	Does not contain PBT and vPvB substances.
	assessment	
12.6	Other adverse effects	
	Heavy metal content:	None.
	PCT, PCB and other chlorinated	None.
	hydrocarbons:	
	Environmental effects:	Large spillages may be hazardous to the environment.
	Water hazard class (German):	WGK 1 (Classification by VwVwS)

13. Section Disposal considerations

- 13.1 Waste treatment methods
 - Product disposal:

Wastes of the product or used oil should be treated as hazardous waste. Waste Identification Code: 12 01 12*

Spent waxes and fats.

Disposal must be in compliance with national and local regulations.

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances. Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

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14. Secti	on Transport informat	tion	
Lan	d transport:		
	Road/ Railway	ADR/RID:	Not classified.
14.1.	UN number:	-	
14.2.	UN proper shipping name:	-	
14.3.	Transport hazard class(es):	-	
14.4.	Packing group:	-	
14.5.	Environmental hazards:	-	
14.6.	Special precautions for user:	-	
Wat	terways:		
	Inland waterways/ Sea transport	ADN/IMDG:	Not apply to the product.
Air	transport: ICAO / IATA:		Not apply to the product.

15. Section **Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture. This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2015/830/EU) and to Regulation (EC) 1272/2008.
- 15.2 Chemical safety assessment. not available

16. Section Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.



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Source of data presented in this material safety data sheet: Test results of this product Material safety data sheets of product's components Hungarian and EU lists of dangerous substances Relevant Hungarian regulation and EU directives Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP) Eye Irrit 2 H319 (calculated) The full text of each relevant Hazard classes and cat., and H- phrase in Section 3.: H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. H314 H315 Causes skin irritation. Causes serious eye damage. H318 Causes serious eye irritation. H319 May cause respiratory irritation. H335 H411 Toxic to aquatic life with long lasting effects. Acute Tox. 4 Acute toxicity Category 4 Asp.Tox.1 Aspiration hazard Category 1 Skin Corr. 1B Skin corrosion/irritation Category 1A Skin Irrit. 2 Skin corrosion/irritation Category 2 Eve Dam. 1 Serious eye damage/eye irritation Category 1 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Specific target organ toxicity — single exposure Category 3 STOT SE 3 Aquatic Chronic 2 Hazardous to the aquatic environment, Chronic Category 2 Legend: ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road ADR ATE Acute Toxicity Estimate BCF **Biocontrentration Factor** BOD **Biological Oxygen Demand**



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Bw	Body Weight
C&L	Classification and Labeling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcigonic, Mutagenic or toxic to Reproduction
COD	Chamical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Cheamicals Agency
Ecx	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Edx	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
ESIS	European Chemical Substances Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LCx	Lethal Concentration x%
LDx	Lethal Dose x%) Halálos dózis x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOALL	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
	parts/million
ppm REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of wery high concern substance of unknown or variable composition, complex reaction products or biological
UVCB	materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative



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3	Composition / information on ingredients	01.08.2008	2
16	The full text of each relevant R phrase in Section 3		
1-16	Other corrections		
3	Composition / information on ingredients	05.05.2010	3
9	Physical and chemical properties		
16	The full text of each relevant R phrase in Section 3.		
2	Hazards identification	01.08.2012	4
3	Composition/information on ingredients		
11	Toxicological information		
1-16	Revision modification according to 453/2010/EC and		
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1	Details of the supplier of the safety data sheet, Responsible for	17.06.2015	5
	SDS		
2	Other hazards		
3	Composition/information on ingredients		
5	Fire hazards		
12	Ecological information		
14	Transport information		
1-16	Other corrections, revision modification according to 2015/830 /EC		
1-16	Other corrections	01.06.2016	6